Page 1 of 8 TRADEM ATTY. DOCKET NO. APPLICATION NO. 0942.4340002 09/472,067 FORM PTO-1449 APPLICANT HU et al. INFORMATION DISCLOSURE STATEMENT FILING DATE **GROUP** December 23, 1999 1636 U.S. PATENT DOCUMENTS FXAMINER DOCUMENT NUMBER INITIAL DATE NAME CLASS SUB-CLASS FILING DATE AA1 4,403,036 09/06/1983 435 317 12/02/1980 Hartley, J.L. et al. 11/15/1983 AB1 4,415,732 Caruthers, M.H. et al. 536 27 03/27/1981 AC1 07/03/1984 536 27 4,458,066 03/24/1981 Caruthers, M.H. et al. 4,500,707 02/19/1985 536 27 AD1 Caruthers, M.H. et al. 03/16/1982 27 05/26/1987 536 08/06/1984 AE1 4,668,777 Caruthers, M.H. et al. 4,900,659 02/13/1990 435 6 01/30/1986 AF1 Lo, A. et al. Hewitt, P.L. 02/13/1990 435 259 AG1 09/26/1986 4,900,677 AH1 06/19/1990 Szybalski, W. 435 91 02/05/1986 4,935,357 AI1 5,030,566 07/09/1991 Son, M. et al. 435 91 01/04/1989 04/28/1992 356 344 08/09/1989 AJ1 5,108,179 Myers, S.A. 435 07/27/1992 5,302,510 04/12/1994 Klevan, L. FOREIGN PATENT DOCUMENTS **EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-CLASS TRANSLATION Yes 05/18/1988 JP 63-113359 NO Yes WO 91/18095 11/28/1991 MIPO 1MA No Yes AN1 EP 0 466 404 A1 01/15/1992 Europe No Yes 07/22/1993 WIPO WO 93/14224 No Yes WO 94/02647 02/03/1994 WIPO No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) 1 - Bayou Biolabs (Harahan, LA) Products for Molecular Biology 1998 Catalog, "DNA Ladders," pp. 2-7. AR Bernards, A., et al., "Pulsed field gradient electrophoresis of DNA digested in agarose allows the sizing of the large duplication unit of a surface antigen gene in trypanosomes," Chemical AS 1 Abstracts 105:187, Abstract No. 92470r (1986). BRL/Life Technologies Package Insert, "DNA Analysis Marker System" (1990). ΑT DATE CONSIDERED EXAMINER

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\mathcal{I}	3)	AA2	5,316	,908	05/31/1994	Carlson, D.P. et al.	435		6 07/13/1990			
- 0	70	AB2	5,714	,326 ~	02/03/1998	Dawson, E.P.	435		6	12/05/1994		
		AC2	5,792	,664	08/11/1998	Chait, B.T. et al.	436		89	06/07/1995		
	1/	AD2	5,840	,575	11/24/1998	Hyman, E.D.	435		320.1	01/10/1997		
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d	3	AR	2	Carman, W.F	., and C. William	mson, "Detection of Enzymatical e Solution Hybridization and by Microbiol. 27:2570-2573 (1989).	ly Amp Incor	lified	Human Immun n of Radiol	odeficiency abeled		
		AS	2/	GenBank Acc	ession No. J0245	9, "Bacteriophage Lambda whole	Genome ————	"" Apri	l 23, 1996.			
	/	AT	2	Gensura Lat "Superladdo	ooratories, lnc. er-low," "Superla	Product List Winter 1997-98 for dder-mid 1,2," and "Superladder	-nign.	(3 pa		ers," including		
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93	AR	3	Graila, J.D (1985).	., "Rapid 'footp	rinting' on supercoiled DN	A," Proc. N	latl. Aca	ad. Sci. USA	<i>82:</i> 3 078-3081	
	AS	3	Huang, J. e exclamation	<i>t al.</i> , "Restricti is Linnaeus," <i>Che</i>	on endonuclease analysis o emical Abstracts 107:1 7 5, A	of granulos bstract No.	is viru . 34093a	s DNA of Agr i (1987).	otis	
	AT	3	Invitrogen	(Carlsbad, CA) 19	997 Product Catalog, "DNA	Molecular k	leight M	arkers," p.	113.	
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73	AR	4	Jones, C.P. markers for (1990).	<i>et al.</i> , "Separat pulsed-field ge	tion of yeast chromosomes in the l electrophoresis," <i>Chemical Abs</i>	e megabase ra tracts 112:1	nge suitable 72, Abstract	e as size No. 230760h
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EXAMINER: Initial i reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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73	AR	6	Novagen 1997	'Catalog, Publis	hed by Novagen, Milwaukee, W	I, pp. 4-5, 115	-117.	
	AS	6	Pharmacia LK "Molecular W	B Biotechnology Leight Markers,	(Piscataway, NJ), 1990 Molect p. 23.	ular and Cell B	iology Price	List,
1	AT		Pharmacia Bi p. 58.	otech (Piscatawa	y, NJ) 1997 Biodirectory Prod	duct Catalog, "	KiloBase DNA	Marker, "
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93	AR	7 Promega (M	adison, WI), 1990	Products Catalog, "Lambda EcoRI	Markers," p	. 238.	
	AS	7 Promega (M	adison, W1), 1997	Biological Research Products Car	talog, "1kb	DNA Ladder,	" p. 17.
	AT	Z // Sigma (St. Analysis P	Louis, MO), 1997 roducts," p. 1530	Biochemicals and Reagents for L	ife Science	Research Ca	talog, "DNA/RN#
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73	AR	8 Stratagene	(La Jolla, CA), 1988 Catalog, pp. 55-57,	100, 123.			
	AS	8 Stratagene	(La Jolla, CA) 1997/1998 Catalog, "Kb DNA	Ladder," p. 130.		·	
	AT			language abstract of Japane: 809/26 (1988).	se Patent No. 63-1	13359 (Doc. A	L1), Derwent	
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